

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G01N23/225

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G01N H01J C23C H05H G21K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	T. WIRTZ, B. DUEZ, H. -N. MIGEON, H. SCHERRER: "Useful yields of MCs+ and MCs2+ clusters: a comparative study between the Cameca IMS 4f and the Cation Mass Spectrometer" INTERNATIONAL JOURNAL OF MASS SPECTROMETRY, vol. 209, 2001, pages 57-67, XP001197305 cited in the application page 58, left-hand column, line 19 - right-hand column, line 22	1,3,4, 8-12,14, 15,17,18
Y	page 66, right-hand column, last paragraph; figure 1 ----- -/--	2,5-7,16

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*G\* document member of the same patent family

Date of the actual completion of the international search

16 July 2004

Date of mailing of the international search report

30/07/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Wulveryck, J-M

## INTERNATIONAL SEARCH REPORT

International Application No.

PCT/EP 03/12074

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	T. MOOTZ, B. RASSER, P. SUDRAUD, E. NIEHUIS, T. WIRTZ, W. BIECK, H.-N. MIGEON: "Cation Mass Spectrometer: an Instrument Dedicated to the Analysis of MCs+ Clusters. Description of the Instrument and Preliminary Result" 2000, PROCEEDINGS OF THE 12TH INTERNATIONAL CONFERENCE ON SECONDARY ION MASS SPECTROMETRY, ELSEVIER, AMSTERDAM, XP008032791 cited in the application page 233 - page 236 ✓	1,3,4, 8-12,14, 15,17,18
Y	----- US 2 972 115 A (HOLLOWAY JOSEPH H ET AL) 14 February 1961 (1961-02-14) ✓	5,16 19,21
Y	column 5, line 24 - column 7, line 3; figures 5,6	2,20
Y	----- GB 1 315 647 A (BALZERS PATENT BETEILIG AG) 2 May 1973 (1973-05-02) ✓	20
A	page 2, left-hand column, line 28 - line 50; figures 1,2	2,19, 21-23
Y	----- M. KAMARATOS: "Adsorption kinetics of the Cs-O activation layer on GaAs(100)" APPLIED SURFACE SCIENCE, vol. 185, 2001, pages 66-71, XP002288601 page 66, right-hand column, last paragraph - page 67, left-hand column, paragraph 2 ✓	6,7